

1 1. For use in an automated pipetting system having a pipetting chamber with a generally
2 U-shaped ledge, a pipette tip magazine adapted for insertion into and removal from an operative
3 position in said chamber supported on said ledge, said magazine comprising a generally rectangular
4 plate having an edge surrounding an inner region, said edge being configured to be supported on
5 said ledge, and said inner region having an array of through openings for vertically receiving and
6 retaining pipette tips, said plate being molded from a polymeric resin and having an inherent
7 stiffness such that when supported on said ledge, a downward force of up to about 1000 Newtons
8 applied to ^{the} said inner region will produce a downward deflection of said plate at said geometric
9 center of not more than ^{0.51 mm} ~~51~~ mm.

1 2. The pipette tip magazine of claim 1, wherein the polymeric resin is polycarbonate.

1 3. The pipette tip magazine of claim 1, wherein the polycarbonate is filled with glass
2 fiber.

1 4. The pipette tip magazine of claim ³1, wherein the amount of glass fiber is approximately
2 20 to 40% by weight of the polycarbonate.

1 5. The pipette tip magazine of claim 1 wherein the edge is between 10 to 15% of the total
2 area of the plate.

1 6. The pipette tip magazine of claim 1 wherein said magazines when filled with pipette
2 tips are stackable.